



Dimension

295 * 127 * 41 (1U) mm 11.6 * 5 * 1.61(1U) inch















2000W Power Supply with Single Output















Features

- Universal AC input / Full range
- · Built-in active PFC function
- · High efficiency up to 92%
- · Forced air cooling by built-in DC fan
- Output voltage programmable
- Active current sharing up to 8000W (3+1)
- Built-in remote ON-OFF control / remote sense / auxiliary power / DC OK signal / OTP alarm signal
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- · Optional conformal coating
- 5 years warranty

Applications

- · Factory control or automation apparatus
- · Test and measurement instrument
- · Laser related machine
- · Burn-in facility
- · Digital broadcasting
- · RF application

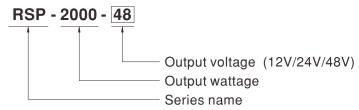
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

RSP-2000 is a 2KW single output enclosed type AC/DC power supply with 1U low profile. This series operates for 90~264VAC input voltage and offers the models with the DC output mostly demanded from the industry. Each model is cooled by the built-in fan with fan speed control, working for the temperature up to 70°C. Moreover, RSP-2000 provides vast design flexibility by equipping various built-in functions such as the output programming, active current sharing, remote ON-OFF control, auxiliary power, etc.

■ Model Encoding / Order Information





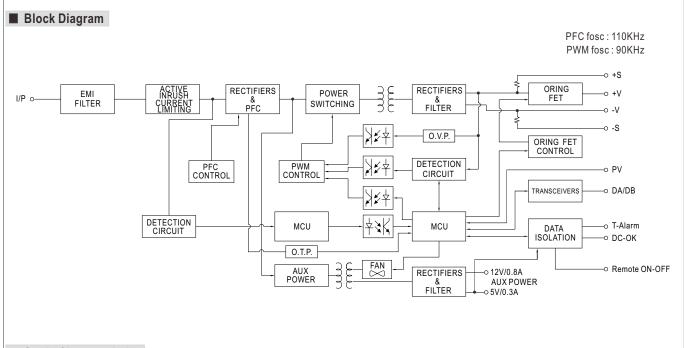
SPECIFICATION

MODEL		RSP-2000-12 F	RSP-2000-24	RSP-2000-48						
	DC VOLTAGE	12V 2	24V	48V						
	RATED CURRENT	100A 8	80A	42A						
	CURRENT RANGE	0 ~ 100A	0~80A	0 ~ 42A						
ОИТРИТ	RATED POWER	1200W	1920W	2016W						
	RIPPLE & NOISE (max.) Note.2		200mVp-p	300mVp-p						
	VOLTAGE ADJ. RANGE		21 ~ 28V	42 ~ 56V						
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%						
	LINE REGULATION		±0.5%	±0.5%						
	LOAD REGULATION		±0.5%	±0.5%						
	SETUP, RISE TIME	1500ms, 60ms/230VAC at full load	0.070	_ 0.070						
	HOLD UP TIME (Typ.)		Sms/230VAC at 75% load 10ms/230VAC at full load							
		90 ~ 264VAC 250 ~ 320VDC	to at fair load							
	FREQUENCY RANGE	47 ~ 63Hz								
		0.97/230VAC at full load								
	POWER FACTOR (Typ.)		00.50/	020/						
NPUT	EFFICIENCY (Typ.)		90.5%	92%						
	AC CURRENT (Typ.) Note.4		16A/115VAC 10A/230VAC	16A/115VAC 10A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 50A								
	LEAKAGE CURRENT	<2mA / 240VAC								
	OVERLOAD	105 ~ 125% rated output power								
	OVERLOAD	Protection type : Constant current limiting, ur	nit will shut down o/p voltage after 5 sec. re	e-power on to recover						
PROTECTION	OVERVOLTACE	14.7 ~ 17.5V	29.5 ~ 35V	57.6 ~ 67.2V						
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-p	ower on to recover							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automaticall	ly after temperature goes down							
	OUTPUT VOLTAGE PROGRAMMABLE(PV)	Adjustment of output voltage is allowable to	o 40 ~ 115% of nominal output voltage. P	lease refer to the Function Manual.						
	CURRENT SHARING	Up to 8000W or (3+1) units. Please refer to the	he Function Manual.							
UNCTION	AUXILIARY POWER	5V @ 0.3A, 12V @ 0.8A								
	REMOTE ON-OFF CONTROL	By electrical signal or dry contact Power ON:open Power OFF:short. Please refer to the Function Manual.								
	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.5V. Please refer to the Function Manual.								
	DC OK SIGNAL	The isolated TTL signal out. Please refer to the	<u>'</u>							
	WORKING TEMP.	-35 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
NVIDONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
ENVIRONMENT										
ENVIRONMENT		±0.03%/°C (0~50°C)								
	TEMP. COEFFICIENT	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
	VIBRATION			(1) 170 00000 (
		10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2005	S EN/EN62368-1, BSMI CNS15598-1, AS/	/NZS62368.1,						
	VIBRATION	UL62368-1, CSA C22.2 No. 62368-1, TUV B	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved	/NZS62368.1,						
	VIBRATION SAFETY STANDARDS	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2005 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved 0.5KVAC	/NZS62368.1,						
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2005 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved 0.5KVAC	/NZS62368.1,						
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	UL62368-1, CSA C22.2 No. 62368-1, TUV B: BIS IS13252(Part1): 2010/IEC 60950-1:2005 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH	,						
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B: BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard	Test Level / Note						
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	UL62368-1, CSA C22.2 No. 62368-1, TUV B: BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936	Test Level / Note Class B						
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2	Test Level / Note Class B Class A						
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker	S EN/EN62368-1, BSMI CNS15598-1, AS/ 5 (except 48V), EAC TP TC 004 approved 0.5KVAC 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3	Test Level / Note Class B Class A						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B: BIS IS13252(Part1): 2010/IEC 60950-1:2005 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438	Test Level / Note Class B Class A						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2005 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard	Test Level / Note Class B Class A Test Level / Note						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B: BIS IS13252(Part1): 2010/IEC 60950-1:2005 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5kVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B: BIS IS13252(Part1): 2010/IEC 60950-1:2005 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated EFT / Burst	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated EFT / Burst Surge	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Li						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated EFT / Burst Surge Conducted	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-L Level 3						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated EFT / Burst Surge Conducted	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-L Level 3 Level 4						
SAFETY & EMC (Note 6)	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Li Level 3 Level 4						
EMC Note 6)	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Li Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods						
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL62368-1, CSA C22.2 No. 62368-1, TUV B BIS IS13252(Part1): 2010/IEC 60950-1:2008 I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/EN61000-6-2, BS Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	S EN/EN62368-1, BSMI CNS15598-1, AS/5 (except 48V), EAC TP TC 004 approved 0.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN55032 (CISPR32), CNS15936 BS EN/EN61000-3-2 BS EN/EN61000-3-3 SMI CNS13438 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Li Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods						

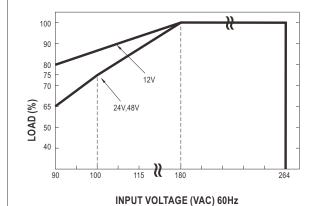
NOTE

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. Please contact MEANWELL for 320~370VDC application.
- 6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 720mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





■ Static Characteristics

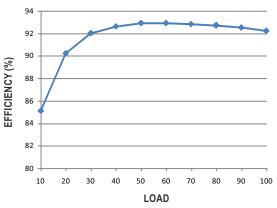


INPUT	12V	24V	48V
180~264VAC	1200W	1920W	2016W
	100A	80A	42A
115VAC	1080W	1632W	1713.6W
	90A	68A	35.7A
100VAC	1020W	1440W	1512W
	85A	60A	31.5A
90VAC	960W	1248W	1310.4W
	80A	52A	27.3A

■ Derating Curve

100 80 for 180-264VAC 60 40 20 -35 -25 -10 0 15 30 50 60 70 (HORIZONTAL) AMBIENT TEMPERATURE (°C)

■ Efficiency vs Load (48V Model)



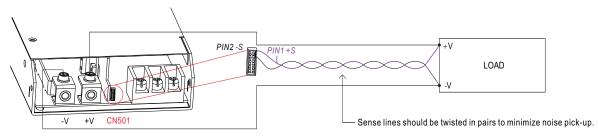
 \bigcirc The curve above is measured at 230VAC.



■ Function Manual

1. Remote Sense

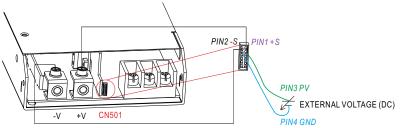
※ The Remote Sense compensates voltage drop on the load wiring up to 0.5V



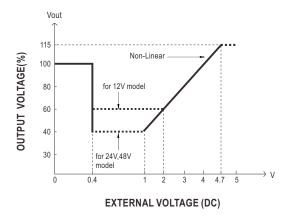
The +S signal should be connected to the positive terminal of the load whereas -S signal to the negative terminal.

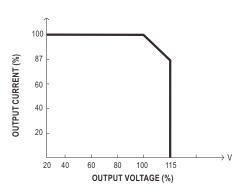
2. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 40∼115% of the nominal voltage by applying EXTERNAL VOLTAGE.



○+S&+V, -S&-V also need to be connected on CN501.

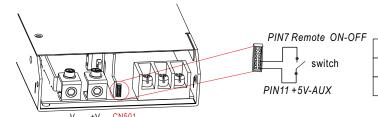




The rated current should change with the Output Voltage Programming accordingly.

3. Remote ON-OFF Control

The power supply can be turned ON/OFF individually or along with other units by using the "Remote ON-OFF" function.



Between Remote ON-OFF and +5V-AUX	Power Supply Status
Switch Open	ON
Switch Short	OFF



4. Current Sharing with Remote Sense

RSP-2000 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below:

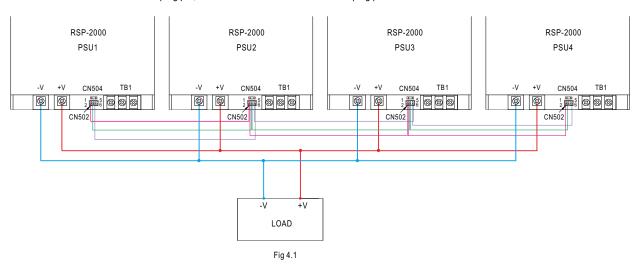
- ※ The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- X Difference of output voltages among parallel units should be less than 0.2V.
- ** The total output current must not exceed the value determined by the following equation: Maximum output current at parallel operation=(Rated current per unit) * (Number of unit) * 0.9
- ※ Under parallel operation, the minimum output load should be greater than 5% of total output load; otherwise, it is likely that only one unit operates whereas other units may enter standby mode or their LED status indicators may not turn on.
- ※ When the total output current is less than 5% of the total rated current, or say (5% of Rated current per unit)

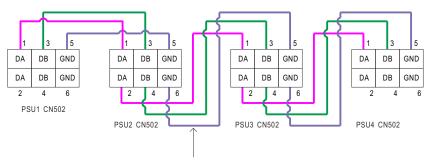
 × (Number of unit)

 the current shared among units may not be fully balanced.
- ※ CN502/CN504 Function pin connection

Parallel	PSU1		PSU2		PSU3		PSU4	
i araner	CN502	CN504	CN502	CN504	CN502	CN504	CN502	CN504
1 unit	Х	V	_	_	_			_
2 unit	V	V	V	V	_		_	_
3 unit	V	V	V	Х	V	V	_	_
4 unit	V	V	V	Х	V	Х	V	V

 \bigcirc V is CN502/CN504 connected to plug pin, X is CN502/CN504 not connected to plug pin.





If the lines of CN502 are too long, they should be twisted in pairs to avoid the noise.

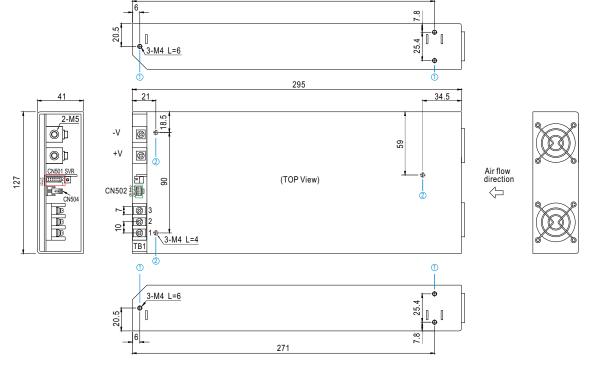
O DA, DB and GND are connected mutually in parallel.



■ Mechanical Specification

(Unit: mm , tolerance ± 0.5 mm)

Case No. 952D



Hole No.	Recommended Screw Size	MAX. Penetration Depth L	Recommended mounting torque
1	M4	6mm	7~10Kgf-cm
2	M4	4mm	7~10Kgf-cm

Mounting Surface

Chassis of RSP-2000

Mounting Screw

★Control Pin No. Assignment (CN501): HRS DF11-12DP-2DS or equivalent



Mating Housing	HRS DF11-12DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description	
1	+S	Positive sensing for remote sense.	
2	-S	Negative sensing for remote sense.	
3	PV	Connection for output voltage programming. (Note.1)	
4	GND	This pin connect to the negative terminal(-V).	
5	DC-OK	High (4.5 ~ 5.5V): When the Vout ≦80% ±6%. Low (0 ~ 0.5V): When Vout ≧80% ±6%. The maximum sourcing current is 10mA and only for output. (Note.2)	
6	T-ALARM	High (4.5 ~ 5.5V): When the internal temperature (TSW1 or TSW2 open) exceeds the limit of temperature alarm. Low (0 ~ 0.5V): When the internal temperature (TSW1 or TSW2 short) under the limit temperature. The maximum sourcing current is 10mA and only for output. (Note.2)	
7	Remote ON-OFF	The unit can turn the output on and off by electrical signal or dry contact between Remote ON - OFF and $+5V$ - AUX . (Note.2) Short $(4.5 \sim 5.5V)$: Power OFF; Open $(0 \sim 0.5V)$: Power ON; The maximum input voltage is $5.5V$.	
8,9,10	GND-AUX	Auxiliary voltage output GND. The signal return is isolated from the output terminals (+V & -V).	
11	+5V-AUX Auxiliary voltage output, 4.5~5.5V, referenced to <i>GND-AUX</i> . The maximum load current is 0.3A. This output has the built-in "Oring diodes" and is not controlled by the Remote ON-OFF or		
12	+12V-AUX	Auxiliary voltage output, 10.6~13.2V, referenced to GND-AUX. The maximum load current is 0.8A. This output has the built-in "Oring diodes" and is not controlled by the Remote ON-OFF control.	

Note1: Non-isolated signal, referenced to the output terminals (-V).

Note2: Isolated signal, referenced to GND-AUX.

2000W Power Supply with Single Output

%LED Indicators & Corresponding Signal at Function Pins

Function	LED	Description	* Signal	Power Supply Output
DC-OK	GREEN	When output voltage \geq 80% \pm 5% of Vo rated.	0 ~ 0.5V	ON
DC-NG	RED	When output voltage \leq 80% \pm 5% of Vo rated.	4.5 ~ 5.5V	ON
T-OK	GREEN	When the internal temperature (TSW1 & TSW2 short) is within safe limit	0 ~ 0.5V	ON
T-ALARM	RED	When the internal temperature (TSW1 or TSW2 open) exceeds the limit of temperature alarm	4.5 ~ 5.5V	OFF

^{*}Signal between function pin and "GND-AUX".

% Control Pin No. Assignment (CN502): HRS DF11-6DP-2DSA or equivalent



Mating Housing	HRS DF11-6DS or equivalent	
Terminal	HRS DF11-**SC or equivalent	

Pin No.	Function	Description	
1,2	DA	Differential digital signal for parallel control.	
3,4	DB	Differential digital signal for parallel control.	
5,6	GND	These pins connect to the negative terminal (-V).	

※Control Pin No. Assignment (CN504):

Pin No.	Function	Description
1,2	Terminal resistance	CN504 is the selector of terminal resistor that is designed for DA/DB signals and parallel control function.

XAC Input Terminal Pin No. Assignment

Pin No	. Assignment	Diag	ıram	Maximum mounting torque
1	AC/N		D - O - O - O	
2	AC/L			18Kgf-cm
3	FG ±			

※DC Output Terminal Pin No. Assignment

	•	
Assignment	Diagram	Maximum mounting torque
+V, -V		10Kgf-cm

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html